

What is claimed is:

1. A radiation-transparent die half for a forming die comprising:  
  
a beam outlet from a shaping beam outlet surface being spatially limited by a diaphragm;  
  
said diaphragm being constructed as a radiation-impermeable layer which is enclosed up to its end faces by radiation-transparent material.
2. The radiation-transparent die half according to claim 1, wherein the radiation-impermeable layer has layer portions which communicate with one another, a first layer portion covering a radiation-transparent material area and extending up to the shaping beam outlet surface, and wherein the inner end face of a second layer portion is placed around the first layer portion as a layer ring.
3. The radiation-transparent die half according to claim 2, wherein the two layer portions are arranged between two die half parts which are connected to one another and which are made of radiation-transparent material, a first die half part being constructed as a hollow cylinder and a second cylindrical die half part being divided into two partial cylinders with different diameters, and wherein the hollow cylinder is placed on the partial cylinder with the smaller diameter.
4. The radiation-transparent die half according to claim 3, wherein the material of the die half parts is identical radiation-transparent material.
5. The radiation-transparent die half according to claim 4, wherein the radiation-impermeable layer contains a metal layer.
6. The radiation-transparent die half according to claim 5, wherein at least one of the layer portions serves as a joining layer between the two die half parts.
7. The radiation-transparent die half according to claim 5, wherein an additional radiation-absorbing layer is added to the metal layer.

8. The radiation-transparent die half according to claim 4, wherein the radiation-impermeable layer comprises a radiation-absorbing material.

9. The radiation-transparent die half according to claim 4, wherein the radiation-impermeable layer is a nonmetallic layer.

10. The radiation-transparent die half according to claim 1, wherein the die half is part of a forming die for the production of contact lenses.

11. An optical assembly comprising:  
  
radiation-transparent material and a diaphragm for spatially limiting a beam outlet from a beam outlet surface;  
  
said diaphragm being formed as a radiation-impermeable layer in the radiation-transparent material.

12. An optical assembly according to claim 11, wherein the radiation-impermeable layer has layer portions which communicate with one another, a first hollow-cylindrical layer portion enclosing a radiation-transparent area and extending up to the beam outlet surface, and wherein the inner end face of a second, annular layer portion is placed around the first layer portion.

13. The optical assembly according to claim 12, wherein the two layer portions are arranged perpendicular to one another.

14. The optical assembly according to claim 13, wherein the material in which the radiation-impermeable layer is formed is identical radiation-transparent material.

15. The optical assembly according to claim 11, wherein the beam outlet surface is constructed as a forming surface for a die half of a forming die.